

Title (en)

METHOD FOR CONTROLLING AND/OR REGULATING A WELDING DEVICE, AND WELDING DEVICE

Title (de)

VERFAHREN ZUM STEUERN UND/ODER REGELN EINES SCHWEISSGERÄTES UND SCHWEISSGERÄT

Title (fr)

PROCEDE DE COMMANDE ET/OU REGULATION D'UN DISPOSITIF DE SOUDAGE ET DISPOSITIF DE SOUDAGE

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Application

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Abstract (en)

[origin: WO2006089322A1] The invention relates to a method for controlling and/or regulating a welding device (1) comprising a welding rod (13), a cold metal transfer welding process being carried out after striking an arc (15), as well as a welding device (1) for carrying out said method. In order to create multiple possibilities to control the delivery of heat into the workpiece or introduce additional material, the polarity of the welding current I and/or the welding voltage U is switched during at least some short circuit phases (33). The amplitude of the welding current I and/or the welding voltage U is set to a defined value such that the welding rod (13) is prevented from fusing or a short-circuiting link is prevented from occurring while the arc (15) can be struck again safely when the welding rod (13) is lifted from the workpiece (16) by re-striking the arc (15) exclusively with the aid of the welding current I and/or the welding voltage U without using an auxiliary voltage source at the end of the short circuit phase (33) or the beginning of the arcing phase (36).

IPC 8 full level

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